

MATERIAL SAFETY DATA SHEET

Cislin® Dust

Date of Issue: February 5, 2009

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND SUPPLIER

Product name: **Cislin® Dust Insecticide**
Other names: None
Chemical group: Pyrethroid
Recommended use: Professional pest control insecticide
Formulation: Dust Powder (DP)
Supplier: Bayer Environmental Science – A Business Group of Bayer CropScience Pty Ltd
ABN 87 000 226 022
Address: 391 - 393 Tooronga Road, East Hawthorn
Victoria 3123, Australia
Telephone: (03) 9248 6888
Facsimile: (03) 9248 6800
Website: www.bayeres.com.au
Contact: Technical Manager (03) 9248 6888
Emergency
Telephone Number: 1800 033 111 – Orica SH&E Shared Services

2. HAZARDS IDENTIFICATION

NON-HAZARDOUS SUBSTANCE - NON-DANGEROUS GOOD

Hazard designation: Not classified as hazardous according to criteria of Worksafe Australia
Risk phrases: Not applicable
Safety phrases: Not applicable
ADG classification: Not “dangerous goods” for transport by road or rail according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
SUSDP
classification: None

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:	CAS Number:	Concentration (g/kg):
Deltamethrin	[52918-63-5]	0.5
Other ingredients (non-hazardous)	-	999.5

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Cislin® Dust

Date of Issue: February 5, 2009

4. FIRST AID MEASURES

If poisoning occurs, immediately contact a doctor or Poisons Information Centre (telephone 13 11 26), and follow the advice given. Show this Material Safety Data Sheet to a doctor.

- Inhalation:** Remove person to fresh air. Keep at rest. Seek medical advice if exposure has been more than trivial. Administer artificial respiration if breathing has stopped.
- Skin contact:** Carefully remove contaminated clothing and footwear. Wash affected areas with soap and water. Apply vitamin E cream, toilet milks or local anaesthetic creams to reduce irritation if it occurs. Seek medical advice if at all worried. Launder contaminated clothing before re-use.
- Eye contact:** Rinse immediately with plenty of water for at least 15 minutes, holding eye open. Seek advice from an ophthalmologist.
- Ingestion:** Wash out mouth with water. Do not induce vomiting. Keep patient at rest and seek medical advice.
- First Aid Facilities:** Ensure eye wash and safety shower are available when handling this product.
- Symptoms:** Local: skin and eye paraesthesia which may be severe. The product causes irritation of eyes, skin and mucous membranes. Inhalation may provoke the following symptoms: irritation, cough.
Systemic: excitement, gastrointestinal discomfort, tremors, dizziness, headache, apathy, nausea, vomiting, abdominal pain, muscular fasciculation, unconsciousness.
- Medical attention:** Treatment
Basic aid, decontamination, symptomatic treatment and if necessary administration of antidote.
Note for physicians
Treat large intakes with gastric lavage, and charcoal administration. Use endotracheal intubation, and artificial respiration (if necessary). Monitor respiratory and cardiac functions. Observe electrocardiograph, and check for pulmonary oedema in event of inhalation. Anticonvulsant therapy with diazepam i.v. No antidote known. Treat symptoms. Recovery should be spontaneous. Elimination by: dialysis, haemo-perfusion.
Contraindication – adrenergic compounds, atropine. DO NOT confuse with anticholinesterase compounds. Skin contacted by deltamethrin must be carefully cleaned with cleansing milk. Symptoms can be partially alleviated by the application of a vitamin E or moisturising cream or anaesthetic ointment. For eyes, instil local anaesthetic drops e.g. 1% amethocaine hydrochloride eye drops. Give analgesics as necessary.

MATERIAL SAFETY DATA SHEET

Cislin® Dust

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5. FIRE FIGHTING MEASURES

Extinguishing media: Water spray, carbon dioxide, foam, dry chemical.

Hazards from combustion products: In the event of fire, hydrogen cyanide, hydrogen bromide, and oxides of nitrogen and carbon may be produced.

Precautions for fire fighters: Fire fighters should wear full protective gear, including self-contained breathing apparatus (AS/NZS 1716), as toxic and irritating decomposition products may be produced in a fire. If it can be done safely, remove intact containers from the fire. Otherwise, use water spray to cool them. Bund area to prevent contamination of water sources. Dispose of fire control extinguishing agent and spillage later in a safe manner. Do not release contaminated water into the environment.

6. ACCIDENTAL RELEASE MEASURES

Dealing with spills and disposals may result in the potential for increased personal exposure. Protective clothing and equipment as described in the PERSONAL PROTECTION section should be worn. Avoid contact with spilled material or contaminated surfaces. Keep people and animals away. Prevent spill from entering drains, sewers or any body of water. Sweep up into sealable containers for disposal in accordance with applicable local, state and federal regulations.

7. HANDLING AND STORAGE

Handling: Keep out of reach of children. Avoid contact with eyes and skin. Avoid inhalation of dust.

Storage: Store product in the closed, original container in a cool, well-ventilated area away from direct sunlight.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure standards: No exposure standard has been assigned by the National Occupational Health and Safety Commission (Worksafe Australia). Bayer recommends an Occupational Exposure Standard for deltamethrin of 0.28 mg/m³.

Engineering controls: Control process conditions to avoid contact. Use local exhaust ventilation.

Personal Protective Equipment:

Eyes:	Avoid contact with the eyes.
Clothing:	Avoid contact with skin. Wear suitable protective clothing. Protective clothing must be stored separately from private clothing.
Gloves:	Avoid contact with skin. Wear rubber gloves.
Respiratory:	Do not inhale dust. Wear an approved respirator to prevent inhalation, if other control measures are inadequate.
Other:	Wash thoroughly after handling. Do not eat, drink or smoke until after washing. After each day's use wash gloves and contaminated clothing.

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Cislin® Dust

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White powder
Odour:	Weak characteristic
Vapour pressure:	Not applicable
Vapour density:	Not applicable
Boiling point:	Not available
Solubility:	Insoluble
Density:	1.6 g/mL (compacted)
pH:	Not applicable
Flash Point:	Not available
Flammability (explosive) limits:	Non-flammable
Auto-ignition temperature:	Not applicable
Octanol/water partition coefficient:	Not available
Formulation:	Dustable powder (DP)

10. STABILITY AND REACTIVITY

Chemical stability:	Stable under normal conditions of use. Avoid conditions of extreme temperature and direct sunlight.
Hazardous polymerisation:	Not available.
Incompatible materials:	Avoid strong acids.
Hazardous decomposition products:	In the event of fire, hydrogen cyanide, hydrogen bromide, and oxides of nitrogen and carbon may be produced.

MATERIAL SAFETY DATA SHEET

Cislin® Dust

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11. TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

Inhalation:	Inhalation of dust may produce respiratory irritation.
Skin contact:	May irritate the skin. The material should not be allowed to come into contact with the skin.
Eye contact:	Mildly irritating. The material should not be allowed to contact the eyes.
Ingestion:	The product is of low toxicity.
Other:	None

ANIMAL TOXICITY DATA – PRODUCT

Acute:

Oral toxicity:	LD ₅₀ rat: > 5000 mg/kg
Dermal toxicity:	LD ₅₀ rat: > 5000 mg/kg
Inhalation toxicity:	LC ₅₀ (4 h) rat: > 26.1 mg/L
Skin irritation:	Slightly irritating to the skin
Eye irritation:	Irritating to the eyes
Sensitisation:	Not sensitising

Chronic:

Deltamethrin is not mutagenic, carcinogenic or teratogenic.

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12. ECOLOGICAL INFORMATION

Deltamethrin is highly toxic to fish, aquatic organisms and bees in laboratory studies, but considered less toxic under natural conditions.

Fish toxicity: Deltamethrin: LC₅₀: 0.001 – 0.01 mg/L (96 h) fish.

Daphnia toxicity: Deltamethrin: LC₅₀ (48h): 3.5 µg/L

Toxicity to algae: Deltamethrin: EC₅₀ (96h): >9.1mg/L

Bird toxicity: Deltamethrin: LD₅₀: > 5,000 mg/kg duck
Deltamethrin: LD₅₀: > 10,000 mg/kg quail

Bee toxicity: Deltamethrin found to be highly toxic in lab studies but considered less toxic under natural conditions.

Other: None

Environmental fate, persistence and degradation: Deltamethrin is not persistent in the environment. It is destroyed by soil micro-organisms and does not leave residues in the environment or build up in the food chain.
Do not contaminate streams, rivers or waterways with the product or used containers.

13. DISPOSAL CONSIDERATIONS

Triple or preferably pressure rinse container before disposal. Dispose of rinsings in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

14. TRANSPORT INFORMATION

UN number: Not applicable

Proper shipping name: Not applicable

Class and Subsidiary Risk: Not "dangerous goods" for transport by road or rail according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

Packing Group: Not applicable

EPG: Not applicable

Hazchem code: Not applicable

Marine Pollutant: Yes.

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15. REGULATORY INFORMATION

Registered according to the Agricultural and Veterinary Chemicals Act 1988

Australian Pesticides and Veterinary Medicines Authority Approval Number: 62303

16. OTHER INFORMATION

Trademark information: Cislin® is a Registered Trademark of Bayer.
Preparation information: First edition
Data sources: Bayer CropScience Pty Ltd product safety data and published data

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

END OF MSDS